

September/October 2016

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Cybersecurity and Privacy

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Drive-By Download Attacks: A Comparative Study

Aditya K. Sood and Sherali Zeadally

Drive-by download attacks use well-designed, automated applications called browser exploit packs (BEPs) deployed on compromised servers to propagate malware. The authors' study analyzes the built-in features that allow BEPs to execute successful drive-by downloads.

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Security Fatigue

Brian Stanton, Mary F. Theofanos, Sandra Spickard Prettyman, and Susanne Furman

Security fatigue has been used to describe experiences with online security. This study identifies the affective manifestations resulting from decision fatigue and the role it plays in users' security decisions.

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Comparing Password Management Software: Toward Usable and Secure Enterprise Authentication

Patricia Arias-Cabarcos, Andrés Marín, Diego Palacios, Florina Almenárez, and Daniel Díaz-Sánchez

Password managers (PMs) automate password generation and login processes, but might not be secure or usable. The authors analyze the four most popular free PMs from both security and usability perspectives and make recommendations on enterprise PM selection.

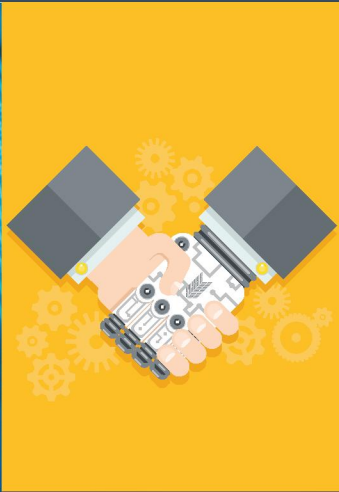
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Post-Quantum Cryptography: What Advancements in Quantum Computing Mean for IT Professionals

Logan O. Mailloux, Charlton D. Lewis II, Casey Riggs, and Michael R. Grimaila

The impact of quantum computing is a topic of increasing importance to IT practitioners. Thus, the authors present a readily understandable introduction and discussion of post-quantum cryptography, including quantum-resistant algorithms and quantum key distribution.





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Automobile 2.0: Reformulating the Automotive Platform as an IT System

Kleanthis Dellios, Constantinos Patsakis, and Despina Polemi

The car is a nexus for continuous invention when it comes to cutting-edge automotive technology. Thus, it is necessary to analyze the modern automotive platform in an IT context to collectively reformulate the Automobile 2.0.

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Displaying Background Maps in Business Intelligence Dashboards

Palash Bera and Louis-Philippe Sirois

In business intelligence dashboards, background maps can overlap with existing data maps to provide more information. The authors test such integrated maps' usefulness and investigate whether they require more or less cognitive effort from users than other approaches.

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